

## PROJECT DESCRIPTION

## I. GENERAL

This project involves the addition of Firehouse pre-emption to the existing Traffic Control Signal with street lighting at the intersection of MD 213 (Main Street) and MD 282 (Bohemia Avenue) in Cecil County. Firehouse pre-emption pushbuttons shall be installed in the Cecilton Fire Department building. MD 213 (Main Street) is assumed to run in a north-south direction.

## II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA four-phase, fully-actuated mode, with the MD 213 (Main Street) approaches running concurrently. The MD 282 (Bohemia Avenue) approaches shall also continue to run concurrently. A new firehouse pre-emption phase shall be installed for the westbound approach of MD 282 (Bohemia Avenue).
- A existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "5" pole-mounted cabinet shall be utilized at this intersection.

## III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

## A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
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THERE IS NO EQUIPMENT TO BE SUPPLIED BY THE SHA.

## B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	1 EA
2001	Class 2 Excavation.	2.5 C.Y.
6001	Furnish and install depressed curb and gutter.	10 L.F.
6002	Standard type A combination curb and gutter 12" gutter pan 8" depth.	30 L.F.
6004	4" concrete sidewalk.	145 S.F.
8063	Furnish and install 2" schedule 80 rigid polyvinyl chloride - bored.	90 L.F.
8067	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - slotted.	180 L.F.
8072	Furnish and install electrical handhole.	3 EA
8083	Furnish and install electrical cable - 3 conductor (No. 14 AWG).	775 L.F.
8091	Furnish and install 2" schedule 80 rigid polyvinyl chloride - trenched	50 L.F.
Neg.	Furnish and install pushbutton	2 EA
Neg.	Conduit, electrical boxes and splicing of within firehouse.	

## C. EQUIPMENT TO BE REMOVED

\*All removed signal materials are to become property of the contractor.\*\*\*\*\*

## PHASE CHART

	1	2	3	4	5	6	7	8
	R	R	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G	G	G
PHASE 2 & 6	G	G	G	G	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	R	R	R	R
PHASE 4 & 8	R	R	R	R	G	G	G	G
4 & 8 CHANGE	R	R	R	R	Y	Y	Y	Y
FIRE PRE-EMPT	R	R	R	R	R	R	G	G
FIRE PRE-EMPT CHANGE	R	R	R	R	R	R	Y	Y
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

The contact persons for District #3 (Montgomery County) are as follows:

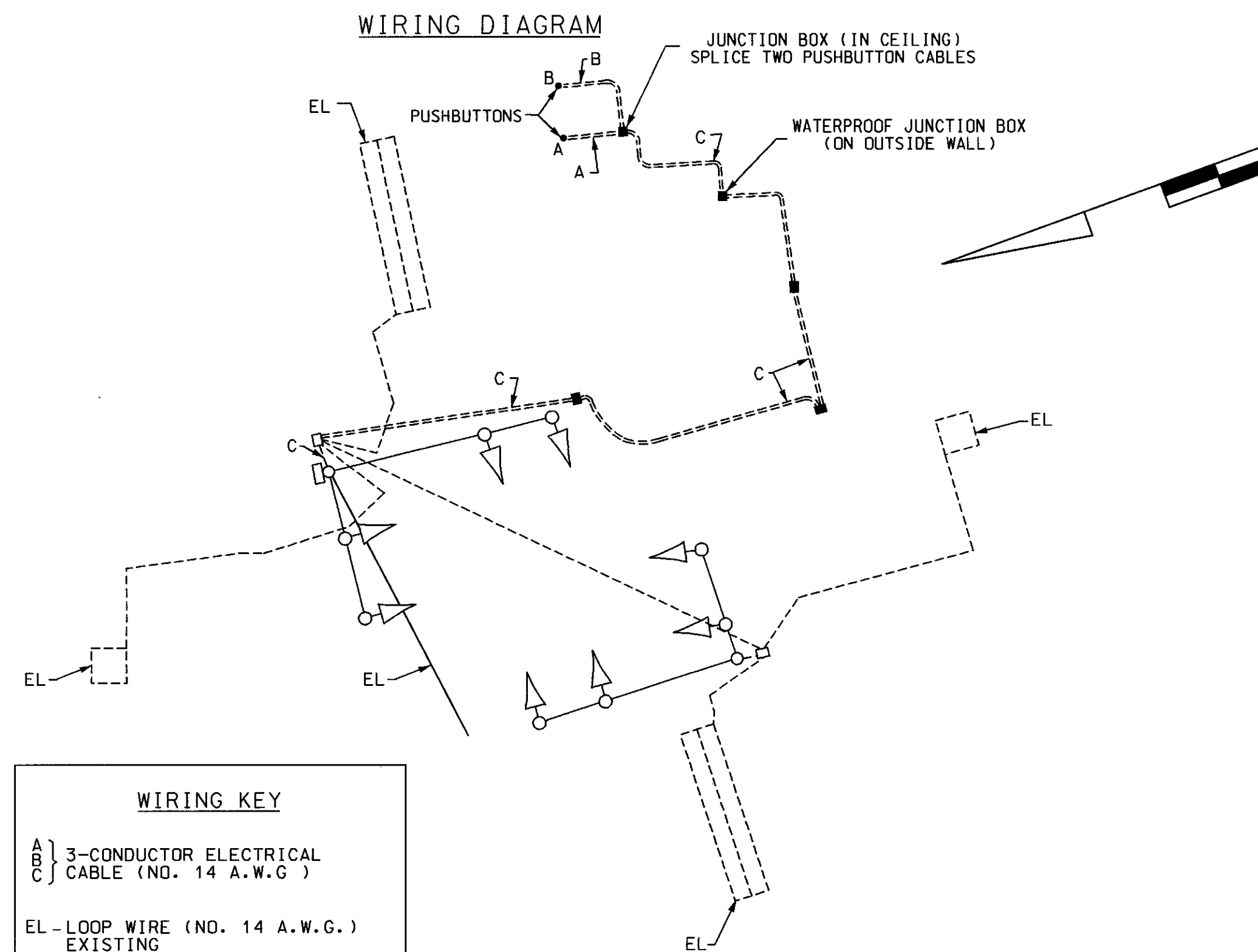
Mr. Lee Starkloff  
Assistant District Engineer - Traffic  
Phone: (301) 513-7318

Mr. Raleigh Medley  
Assistant District Engineer - Maintenance  
Phone: (301) 513-7304

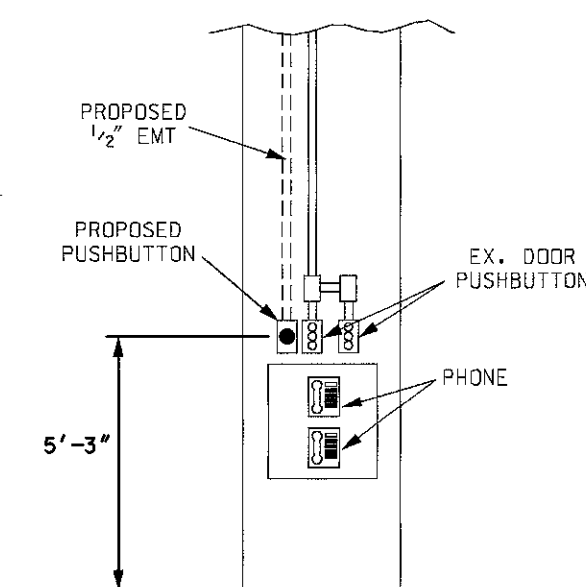
Mr. Augie Rebish  
District Engineer - Utility  
Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.  
Chief, Traffic Operations Division  
Phone: (410) 787-7630

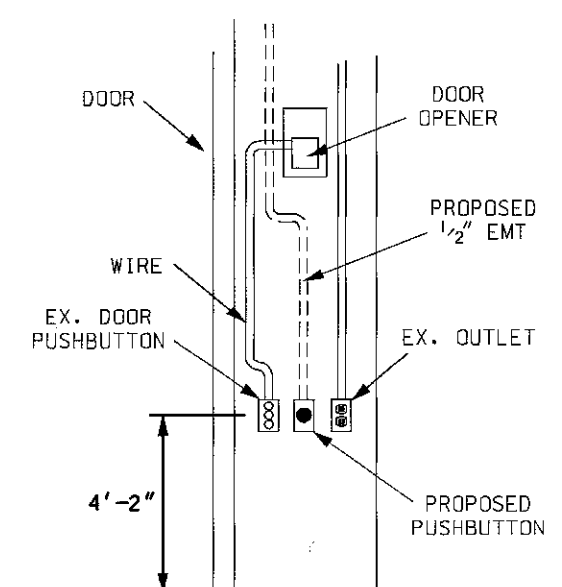
## WIRING DIAGRAM



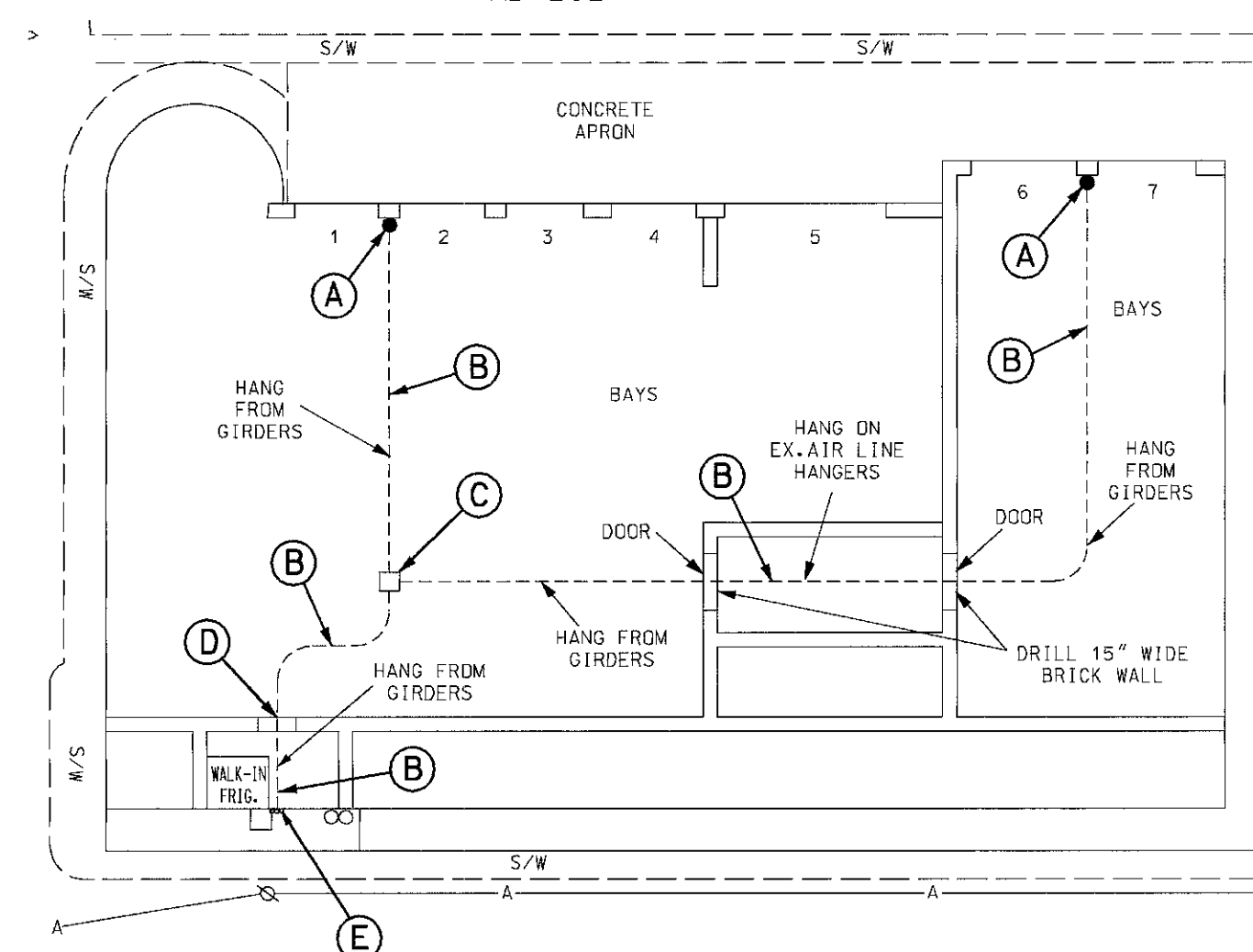
## COLUMN BETWEEN BAYS 1 AND 2



## COLUMN BETWEEN BAYS 6 AND 7



## MD 282 (MAIN ST)



## CONSTRUCTION DETAILS

(For equipment installed within firehouse)

- Install pushbutton on wall between bays (See Typical).
- Install 1/2" EMT with (1) 3-conductor electrical cable.
- Install junction box onto ceiling, and splice the (2) 3-conductor cables into (1) 3-conductor cable.
- Install 1/2" EMT through existing gap in wall under pipe above the Refer room door.
- Drill through wall near existing conduits exiting building and install 1/2" EMT. (See Sheet 1 of 2 for continuation of installation outside of the firehouse.)



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 213 (BOHEMIA AVENUE)  
AND  
MD 282 (MAIN STREET)

DRAWN BY: ROB CICCINI	F.A.P. NO.	TS NO. 306 B	SHEET NO. 2 OF 2
CHECKED BY: R R ZACHERL	S.H.A. NO.		
SCALE: NONE	COUNTY: CECIL	T.I.M.S. NO. F 290	
DATE: 6-13-03	LOG MILE: 07021303.07		